seniors

infectious disease

	mode fans.	source of		Course		Kenia 1931 Egypt 1977 Def
* of bland med of virenia * inhalation rave * inhalation rave * wound in human * wound in human * inhalation rave * wound in human	Biffing: by infected (Mosquies-culex) in Egypt Mechanical Transovarian Biological (20:29) day Finale	-infected insect (mosquites-culex) -infected onimal	* viable - 20°C for 8 years, 4 month - Room temp ch' by: Heamoggultination in of gress RBCs white green	graviridea G→phelbo virus RNA) : graw an veracells -BHKz1	- abortion in adult (without Congential anomalics)	infectious enzastic Hepatitis -acute Arthropod borne viral disease of animal & -ii Human not equine
* may be mosquities "" * Untical * Veneral (Soman)	-Bitting culicaids & only amainly biologically lost day of Blood meal of one bite containe loo, ooo; hoos, oo viral particles	in facted insect (culicods)-infected somen	Cattle 3 month Sheep 4 month Killed by formaline 10%	family 1 Resultidea G 1 orbinitus arbs virus RNA 26 sero type of some cross part. cross protection * Recevery Animal become currier	Cattle. Fever - Laminess chiby: Stamatitis - Rhinitis Enteritis - Gyanosis of langua	mal & infectious non-contagious insect bone viral

	Signs	Hast
The 12 hrs -abortion 40:36% -fever -staggering -masal Discharge -may bloody diarrha -pain in Joint -beatt zui 48 hts cattle 10% sharp zoi 86% -encephalities (patal) -Blindness - temperary or permittant	O kid , Lamb Adult Human	-small Ruminant - Human - may Gamel - Cattle * face hors! - Fetal in young, mild in adult - Scasan: T summer due to high insect activity. -Scasan: T summer due to high insect activity. Uiras - Vector - Hast - Blood Viermia Liver impairment death - utres acute hepatic in liver cells death insuffectionage in liver cells
- Long Course to day, - Long Course to day, - bloody discharge - bloody diarrhea. - Salivation - Lonness - red bon above cornet - knee walking * - Recumbancy - Abortion - still birth - excorration - excorration - Hupermia	- faver doi dioc, 516 day * & Glanosis	Sheep mainly - cattle occasionally - Main k factor: - african breed more resistant than - t summer - t insect activity virus - vector culticates Biological Edema & Emboli Cynosis thrumbus

	Dignosis	P.M	
Summer abortion Summer abortion -Ruf -blue tongue - akabne El signs &p. 11 El lab inculation I/c mice - paralysis & death 24th Sample -mosquites -milk boad -adming virmin -scrum -aborted fetus -dead animal +T-C BHK21 - MDBK - vero Cell - CRE *Seriology test: HI - SNT - Eliza - CfT *M.B: recovered animal has immunity for 2:3 years	O High Marketity of young - abortion in adult	Liver renlargment & Congested * Mottled appearance of Got Liver * grey necrotic faci diemeter 1:2 mm	PVI.
- F. / - Seasonal occurance - virus isolation Sampler - Blood (non-frezen) refrigation 4°C, freezing Kill Virus - T.C: vero - MDBK - BHK21 Visolation & identification of virus - on ECE Visolation & identification of virus - on ECE Visology: ELiza - CfT - SNT **Transmission tester With intection J J G2 Vaccinated (immunized) Susceptable Susce	Signs	- Hypermia skeletal ms Hypermia skeletal ms Hypermia skeletal ms Cyanosis back of Longue	B. T

transat t			,	
no specific +++ - anti-pyeritic - anti-inflomatory	*Bracella + RUf + Aspergillasis *Listeriasis + B. T - parasite *Leptapirasis + Border disease Toxoplasmasis + Gompylobacter + Akabne	```	balbykidney septicemic septicemic Uirus Calibacillosis Salmanollosis mortality Z-High abartian in adult Kid, Lamb	1- High mortaility in young
		s may be + ve South africa	Pholbo U. 1-ligh go%	Diff wessel being
- symptomatic - anti-biotic - anti-biotic - anti-biotic - anti-pyertic - local anti-septic - fluid therapy ()			no cyano sis, no diarrhea. Sheep pox no lamness, no darrha	B. T

1				
Name of the Control o	Jaccination		Central	
t abortogonic t virconia t Congental Anomalies	Jacking Int sheep SIC Ementh after 2ml cattle SIC 2nd dose 4 weeks, Buster Bannually, I year immunity. (b) live attenuated vaccine 1 cm SIC 2:3 year immunity	5-smoke fire 5-smoke fire Housing sheep at night 6-insect proof stable	@ Vector Control:- 1-Larvácide 2-insecticide 3- Repellent 4. Biological - Fungi	25
	tinadivated polyvalent Int SIC, 6 ments safe there attenuated polyvalent Int SIC 1 year at spring before shering		De Hygienic measures - Hygienic disposal of dead cares - disinfictant with formaline - disinfictant sprend of infection - isolation of infection	8. 7

					Cause			2 110
	PPR	Canine & PPR = RP	- Cell associated Virus (Lymphatrapic - immunasuppression)	-senstive & fragile, so killed by sun light.	RNA family paramyto vividea G, Morbilli virus	- Salivation, stomatitis - Diarrhea, 1 mortality - Preumonia		PPR (Kata) * Pest des petitis sheep & goat pox Cuminant - acute highly contagious Viral dis Highly contagious
NB: out break of SGP in sheep pround LSD in Cattle & vice Vera	- goat pox - cpD	in sheep I self only. Protection against	goat pox sheep pox	Sheep pox -> sheep-goat goat pox -> goat-sheep	family: pox viridea DM	Skin Lesian — un Waaled area Visceral lesian	sheep & geat. chi by.	Sheep & goat pox (SgP) Capripox - Highly Confagious viral disease of
		of Gw	* has relationship with Psualo pox	*Zaonatic virus *epithliatrapic (skin)	family: poxviridea DNA G: parapox	Chi by scabby lesian on lips & muzzle, oral commisure () E/	Scare moult. ** infectious non febrile viral disasse of sheep & geat	CPD (contagious pastular dermatitis)

Skylled BL Jak	Pathogenesis	Mode of	Source of Jast
Sky Ruf sum Complications. Only PR Jahren Aborsion. CPD Sim - Coccidia Sky CPD Sim - Pasterlla -infectious fot rot	Viras in malation Blood Sill day vira Sever bloody - Sakvation chartal diarrha L- dehydration	monity inhalation ingestion of Conteminated food	sed A' &excretion - Tears - duft. able. pare resistant
lasiani -PPR - B-T -F -B-T - FMD -Black Lry	blood Virenia - Loca siu day siu day te - permant scar	Direct & indirect Contact through -Skin abrasion (mainly) May - Arthopods -inhalation	SGP - Scabs - Exudute from skin lesion - Saliva - milk - nasal discharge - wool - wool - more sheep - goat - factors: (Marino sheep) (Marino sheep)
-CRD - Malignant form of sop	ivus ivus	Direct ∈ direct contact through : skin abrasion (moily)	-Scabs -Cantominated food & -Cantominated food & where sheep - goat to comet-human to suckling Lamb (3:6) month to feed Lat Lamb Fachorsi- 3:6 month more susceptable more susceptable in young

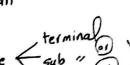
M.3		
- Hind Quarter Solid Acces - Hind Quarter Solid Acces - mouth erosion & ulceration - sover Congestion of abonusum - small intestine - inflommed & erosions to Rectum; Zebra-stripping	I.p 2days, Course Fdays murtality: 55:86% murbilly: 90% tepritheistropic of GIT -facer 3:4 days -salibation -lacrimatrian -nasal day of favoriukeration & crasion of Buccal mucasa (bran mash) -may Constipation to 3id day of feven -watery diarrha (may bloody) -Respiratory signs -dehydration -dehydration -decit due to dehydration	PPR
Typical pox lesion (buccal cavity-largent pharyny) + visconal lesion + Enlarged L-N	Ip 4 days, Canse 45 weeks **Rabligaant form Clambs - kids! Ip 417 day + thick to the civias scar can there 31 day + thore 31 day + thore 31 day + thore 31 day + thore 31 day + thick to civis scar can area. - Lesion on oral Commisure (- Lesion of ukeration of ukerati	SGP
No P.M (3	Crasse 114 week + thick tenicians scar covering orea of ukarahim & proliferative area. -lesian on oral Commissure (Lips .nose, muzzle, baccel mucosa) -lamb die fram poor suckling or feed High Marbidity. - moreabily not mere 1%	CPD

	0.0					Diagnasis	
B.T PPR orbivinus sheep-goat Sheep-goat -Vector -Summer -Gyanosis -ulceration erosion -lamness -no Penomonia penomonia	FMD - Vesicle - Lamness	+Serilogy test_ Eliza _ SNT	TCIB & INIB	AGPT - AGID *isolation & identification of virus on Lamb Kidney C-11	after death Scrum - Feces - Saliva - defection of viral Ag	1-Signs & P. M - marbidity & Marhality 2-viral isolation - sample: blood, not more than the	PPR
- capri pax -all stages - un woold skin dire-lips - no lamness - fever + - Coarse 415 week Coarse 114 week - typical pal lesion thick tenicious scar	SGP CPP	December losis - stock	Mange! Sever Itching - Small nodule hairy parts - one stage	- Histopathology -> ICIB		2 %	SGP
م و الدارية و ال					As SGP Mishopathology > ICIB	- History - signs - vivus isolation - Skin Lesion	$C\rho D$

	previontion &	丰
Burning - Buring 4- disinfection by formaline. 5- vaccination 4- Live attenuated T-C vaccine 11cm, SIC, immunity lisyeus - No past vaccinal Reaction - No Seceration in excreation of onimal - protection begin in sed day after to days protection by A. 13	1- Notification (Notificable dis.) 2-Restriction of farm & markets 3-Hygienic disposal carcass by	Recover A has immunity 2:3 year - Systemic & Local tet
3-disinfection by formaline 10% unactivated - un common, & month immunity * Live attenuated (Romanian strain) ID 12 Cm, immunity - 1 year at un wooked skin past vaccinal reaction past vaccinal reaction of injection * Recovered animal Live long * Recovered animal Live long mmune, CPD - 213 year immune.	1-seperation & isolation of infected onimal. 2-Hyigmic disposal of dead carcass	no specific treatment Local antiscotic anti biotic anti pyretic
- Vaccination by: - Vaccination by: - Live attenuated Vaccine made from suspension of scabs from suspension of scabs in glycerol solation - Scarfication - Scab: dryness - brushing - - Powder - suspension glycerol Saline 1006 - Scarfication (5)	Control:isolation & separation of infected onimal disinfection	Local HH Local antiscptic Betadine or gentiniana - Removal of Scabs

General Characters 1.

) Infectious soil born disease affect animal and may be human



-) Caused by G+ve, spore Forming, anaerobic bacilli. (spore \sub "
-) Motile, non capsulated except cl. perfringes.
- 1) cl -> part of normal Flora of GIT of animal & human -> 50 Contamination of natural orFice & surFace of animal & environment.
-) H.O become pathogenic under certain conditions & produce exotoxin.
-) Pathogenicity depend on toxin "Toxemic disease" Toxemia

4.0 produce different types of roxins

Major	Hinor
$\overline{\alpha}$	Theta
β	8
E	Delta
Iota	

- DEFFect of toxin -> necrosis, Lethal, hemotytic
- 3) Hode of transmission Hairly by ingestion of spore Hay be through wound

1

classification

Neurotropic

His to toxic

Enterotoxemic

Another classification

Invasive

Non Invasive

.M.O (spore) enter The body

- under certain anditions

-> vegitative -> toxin

- Ingestion of toxin directly

- Poxin only enter the body.

lo) Most of Them Cause

1. sudden death

2- Short Course

2. treatment of low value.

- 1) Diagnosis depend on P.M. Isolation & identification, sudden death
- 1) low morbidity & high mortality (100%)
- N.13) Soil horne diseases > Anthrax clostridial diseases

Diagnosis Depend on :-

- 1. sudden death, P.M
- 2. Direct smear (G+ve bacilli)
- 3- Isolation From Lesion "anaershic" -> Goked meat media
- 4. Demonstration of toxin in mice Leath within 24 hrs.
- 5. Identification of toxin -> mouse protection test or toxin-antitoxin neutralization test

Big head 'swollen head)	Bacillary Hemoglobin urea	Black disease intections necotic hepatitis)	struck Hemorihagic enteritis)	Fully Kidney				Lamb dysentry	Disease
ch novyi	ch novyi	type B	Cl. perfringes type c	cl. perFriges type 1)				Cl. pertringes type B	Etiology
"Adult	-mainly Gattle	- sheep mainly - farely in GILL	Adult Sheep	thet of sheep				Suckling lamb	Host
1-2 year "Adult"	Adult	Adult	Adult = 1 year = yearling	2.3 up to 6 months - may be to 1 year.				1-3 w up to	Age
punou	1	1)					with so	Youte
Edema in head	liver infarct 5-20 cm	Hainly in liver -hepatic neclosis	7	t Kidney 5071 rapid outolysis	b pericardium	* content bloody	r seven the entuitis	In 5I "Flower" -, debydrated Grass **Goiled with Fas	MO
Fighting during breeding	Fascioliasis	Tascioliasis	good and thon	-over eating of Conc, starch, glans			t over suckling after starvation	- good Godition + single than twins	predisposing Factors
	Acceptions for 1-2 cm	MB RIVF Gled in Schin enZohic hepatitis -live ch' be sin point	α - β	7-0-		- Q - B3-E	- ocute of abdomized for	-Per ocute - Per ocute - Suddan daath - uithaut pransus	WA SHIRITANG CONTROL OF THE CONTROL OF T

No O.W
In abomasum - sever hemorithage - Inflammation - Ulceration
- oftensive oder
, crepitation
- blacking painful hot then become Cold, painless
- gas Formation - oftensive odor - H25
- Edema - crepitation
₽. ₹

Diseases enter Through wound 1-1) Tetanus D Halignant edema 3) Black leg "in sheep" 4) Big head (B) - Caseous lymphadenitis is non clustridial disease - accidental =) Cause of wound in sheep. 1) shearing 2) docking 4) lambing in dam due to laceration ingenital tract. 2) open Castration 3) umbilical wound in young. N.B) pregnant dam take vaccine in late stage that poster before parturition by 2 weeks. Control 1) Avoid predisposing Factors over leating No crawding wound

- 2) Good mangement of wound " after shearing, decking, etc ... "
- 3) Hygenic disposal of Grass & disintection of the Farm
- i) oral administration of antibiotic as oxytetracycline in Tood & water

Injection penicillin (drug of choice) · sulphon amides

5) Fluid Therapy

6) vaccination

Naccination

Formaline Killed vaccine "Toxoid"
"whole culture vaccine"

Cattle

Sheep

Dose
2 doses
2 doses
2 doses

2 doses

2 ml

3 ml

4 month with the same doses.

3 ml

4 month with the same doses.

Vame of vaccine. Graxin 8 - Graxin 10 - ultrabac - polyvalent vaccine

Black disease

Pathogenesis

"cl. novyi 13"

The solution of the state of the solution of t

the shock _ Poxemia = Poxin = Multiplication = low oxidation reduction potential

B1. vs. of & skin .

Cyanosis "black disease"

Bacillary Hb urea

=) Pathogenesis as black disease

=> Poxin -> hemolysis of RBCs "Red urine"

U.B) = sudden death without previous signs may occur in all clistricial dis.

6

Halignant edema]

- wide The wound to enter oz - injection of HzOz Then infiltration of penicillin at site of wound + systemic penicillin

- Pathogenesis of 1st 3 diseases 'enterotoxemia in sheep"

Spore ingestion of I under certain vegetative - multiplication

Conditions

Thocke Dehydration of Diorchea frontility

Sudden

Lette

Disease Causing Nervous Hanfestation in "Shee?"
م ، م ع (١)
1- Listerosis 2- Coenurosis vièplions
Def: - Acide infectous disease affecting - Acute or Chronic disease of wide range of Animals Chiby sheep caused by invasion of III nervous manifestation. The brain by intermediate stage of Taenia multiaps) Gnurus Grebs. III- Abortion - Cattle At 7m Chiby: - III Nervous Marifest Sheep At 3m II- unilated or bittaral blindness. 3 Death after long Period.
Distrub Wide range disease as: world wide distrubution.
1- wide range host. 2- 11 11 temperature. 3- 11 11 of signs.
Constitut bacterial disease. Tarasitic in nature.
etclesy * L. mono Cytagenes 1/2a * Tacnia multiceps. 5 Serotypes 1/2b in Live in Sm. intestine of Dog.
-G+w- motile-intracellular Live in brain of Sheep.
Live in brain of Sheep. Live in brain of Sheep. Cold enrichment-imp in isolation.
3- grow on blagar, B. lemolysis.
* Listeria iHanovi > Food Bosion.
SUSS All a Ni Marile
oruge & contentions with
> Short > Cattle buffalo > 90 at ruminant but vary rare.
> KPPH

	and the second s
Listeriosis.	Coenurosis.
Sourse of infe (1) Aborted fetus I Fetal m.m Vaginal discharge. 2- Septiamia - Feas - unine milk. 3-meninge enaphatic. ingustion of antaminated material (Foods water). injury in unopharyngeal auity Trigemenal N.	The second secon
transmission: Foods water transmission: Septicamia in monogratic animal calif-lamb then localized in different organ uterus - Abortion Liver-spleen Lung - Pneumonia	rinfected dog eggs, contaminated

/	,		<u> 3</u>	
	. "	Listeriosis	Coenurosis.	
		Theninger encephalic form: a transient Fever (during loadering only). b - Separation from flock. C - head pressing d - unable to rise head. Circuling: in the same side of lesion in brain stem. D.D. a convers. - facial Parelysis detected by: - The strong of saliva. Aropolysis a protosion of torque in sheef. Cattle. Recumbancy death in late 2) Abortion form: At 7th in cattle. At 7th in cattle. At 7th in cattle. At 12 wh month in sheef. Abortion associated with septiamia Aborted lamb, necotic Foci Liver+ reant + splean. Septiamic form: yellow orange mugnium. si septiamic form: quish dirrhea - septiania - death. others: ti without chonge in yellowers:	Defence of blindness ataxia tremors. Notable degree of blindness ataxia tremors. Nystagmus (uncontrolled movement of eye ball espicially after head movement by tester). excitability. excitability. excitability. excitability. case will imfrowe any (anti inflamatory drugs) case will imfrowe will appear cyst formation No tit formation No tit formation No tit expression to Frended run. Acute irritation include wild expression to Frended run. head tit : deviation of head we deviation of head neck from largitude. Indivess in one eye. elliptic Convulsion. Juliness in one eye. elliptic Convulsion. Juliness of Skull Jeath after long Period.	4
	1 -	nd God -> spinal my lits.	لو لِنَّرَا فِي حَسَمُره تَعَالَمَا مَرُه و سَوَّا الْمُ	
	Fore		نبعًن تامه المحادث المعوان المعادد ال	
	Ce	nivisor Is short considerth	Scanned by CamScan	nn,

P.N - Sefficemia - Necrotic Foci in internal organ espicially.

(Liver-Splean-hourt).

- Abortion: - Placentitis

Aborted lamb - Yellow orang muconium.

(Liver-Splean-Heart).

- Thickening of meninges gentle inflamation. galicis ais inflamation. gariofbrain - Cangestion of bl. Necroles of

Cyst in Brain

Hin wall

risk factors.

All ages suss

Stress — winter.

Thumidity.

un Profer made silage

(it's PH exceed 5).

Profer made silage must have

PH — a cidic

Anaembic Condition

M.O — Grow At wide range of

temp 4-44°C

Live in Feas For 3m - 8hep

2 year - Cottle

brown otem fores modergata.

eConomic loses

Death 200 nosis

Abortion lesion

Cost of the and control

Diagnosis Field > Case history - epidemology " Nervous signs - head tilt 5 -> Continous relater-Presence of dog with shoep. Circuling in anurosis squinst side of G · lah " Listeriosis -> sameside of Abortion: - AbomasaL Sample liver-splan of aborted lesion. Tests to detect or determine the lamb MeningeoenCephalitic form:site of Got. · Brain stem. blind Fold test Sefficamia: internal organ. L knuckling test isolation:-· I/D inoculation of Sample. Brain stem - have no value > Palam agar > 4 wk Sample - as false the false-he result one wide in refregrator 4°C=Gld enrichment. Keys to locate Gyst -> microscopical: gram stain ~80% in -> Careboal hamisthere. Grebellum -G+W short bacillion -lo 7. Cocco bacilli. -87. -> multilocation. * detect of mo motility. 42% rave -> spinal Gord-Wet mount tech unilated Hindress -> Combrat Gest by tumbling motility. (Suppfascol) Bi Carebellar Gest (deep) → oil immersion lense → Jerking · narrow diameter circle > Sula fascial 1-2 meter metility. due to Presente of · head pressing -> Frontal 100P. Pritrichou flagelles. on Semi Solid medialab diagnosis: umberella like growth · detect egg in feces. - bact-look or metility · Cyst in skull of sheep.

* lab Animal :-

DAnton test - G. Pig or rabbit instillation of sample in eye -> + We is Pundent

Kerato Conjuctivitis.

@ Mic - IP inJection of 0.1 ml of sample.

-> Death in 3-7 days

Histo Pathology:-

1- Mi Cro absass in brain stem.

2. Neerelic fac in liver, oflean beat.

· CSF analysis:-Obtained From lumbosacral Stace in short

> -> 1 total Protien. I lenogtic aunt.

differentiated From

* Disease Cousing abortion.

* disase Cousing rervous manifestation.

1- disease Causing abortion in sheep

3- listeriosis _ Convosis.

4- disease Cousing Nervous marfestation.) وى يم سردها فنهايه بلذكرة.

- a void Recal oral route Contamination by.

· Change diet or change fastine.

+ Vaccination.

· water · Fooding trougher must be higher than ground.

Scanned by CamScanner

	/ 1		181
	/	Listeriosis	Coen worsis.
/	Syn	Circuling disease	Gid - Sturdy.
٠.	C-agent	L- mono Cytogen	C. Cerebralis . inf. stoge of T. multicas
•	distrubtion	in temPrange 4-44°C	world wide
•	Feller Zoonotic	transiant Luring bacterima only	rane -
:	Abortion	+	
	Gineal Uler Chiartee	+	
	Fascial Poralysis.		
	softining of skull		+ ·
	Frenzed ru	the state of the s	No .
	Liver	hecrotic foci	
	brain	- micro absæss in brain stem. - thickness - Cloudress of meninges.	- if you open before cyst development you find migratory tract.
	+#	- 900d in early stage - Pencillins.	- No Ht fungicidal if viliable animal
	ePidemolo		· out break
*	3P. 3	· if no Ht in early -> death	· long Course -> then death
			•

/_		<u> </u>
/	Nasal mysis	scarpie scf
Syn.	ostrus avis infestation. Nasal bot = head bot grut	
	· Parasitic disease of sheep Ch'by Chronic rhinitis Sinusitis - mucofundent nasal discharge -	· Chronic disease of adult sheep chiby:- Pruritus - sever itching. Nervous manifestation - Tremors.
agent.	00,000	Prion (Proten Gous material) without DNAOR RNA diagnosis very difficult in healthy
	(الا على المها من من المعالى	the Couse. No Ab -> No Sevelogy.
Saura of inf	LifeCycle adulf === nostrilof	· Consitive agent descond in Placenta Fetal-fluid only · Not descond in other secretion.
of transm	Speep larva	· Verticle · horizontal -> exposure to Contamin material (placenta-fetal fixed).
	Hound. Feed on much epithelium 2ing Continous 3rd larva in masal april	by ingestion mainly-
}	adult worm -> 500 egg.	Rhinitis osinusitis may last For لام لرکان مازالت موجوده جوا Month ما لام لرکان مازالت موجوده جوا Month ما لاتجولف الوقعي لهر ۱۰ کهور سَمَ با لغة وكنزل علم الله رجه

		~~_1
	ritation - restlessness - Circuling Inimal hide bet other Animals. seek Gol. humid area. The against hard object/head shaking. sheep lift their feet - scratch Nose bellow is a juing - snow 2 ing.	· Changing behaviour- Freenzing gait. · tremors of head. · lose of wool. · Scrotching against hard diffect. · 6.w -> 6 m -> death.
	difficult breathing.	
Diagnas	Field -> See Adult worm in Place lab -> identification of larva.	Histo Pathology Librain Vaculation.
Dogg	Acc to H	· Control of Scarfe SCP
િલ્ના	gaunded fregnosis.	Destruction of all form.
#	adult Fly -> insecticides.	
	· larva in A -> rafoxanid nitroxynil ImL/2s ky. Ivermedire Icm/soky. washing Nasal Cavity by Na H Co3 17. [Cleaning Nostril]	
; ·		

IMI * other Diseases Causing Nervous Manifestation: [Rabies - history of biting. Signs differ Acc to A SPP. Cattle -> Continous bellowing. Horse -> bitting his Flesh. 8 heap -> extensive Sexual desire in both 7 or 8 12 Hypo magnesmia in form of fits like -if-th by mg sulphate SIC-IIU -> heading-131 Pregenancy to Xemia = Ketosis: - . associated with Pregenancy. · wrine -> ketons + we by wrine Strip test. · a Cetone odor. if the by doltrose 5-10%. 141 thiamine defeancy: - Ht by vit B Gmplex IIV 151 Hypa alamia * twisting of head to one side. * Responce when treated by <u>Ca therapy</u>.

" good Luck "

strangles.

Handers "

far Cy "

Def: - Acute Contingens inféctions Lisease of equine

-ch by inflamation of ulter respiratory and absasation of regional L.N Submaxill Parational retrapped

- Come one in life and specially in young age. it may come more than one.

- Acute or chronic highly fetall
Gritiogous disease of oquine and
human mostly acute in Donkeys
and chronic In Horses.

- chi by Formation of Nodules
and ulcuration in Respiratory
tract and skin.

eticlogy * strepto coccus equi subspl equi x redomonas Malli Burkholdenia Halli

G+4 - Single Payred.

* G-We bacteria.

* Present in - Nasal discharge.

-Pus - Saliva-

* capsulated.

* Virulence - hy alouronic Acid

M. Protien.

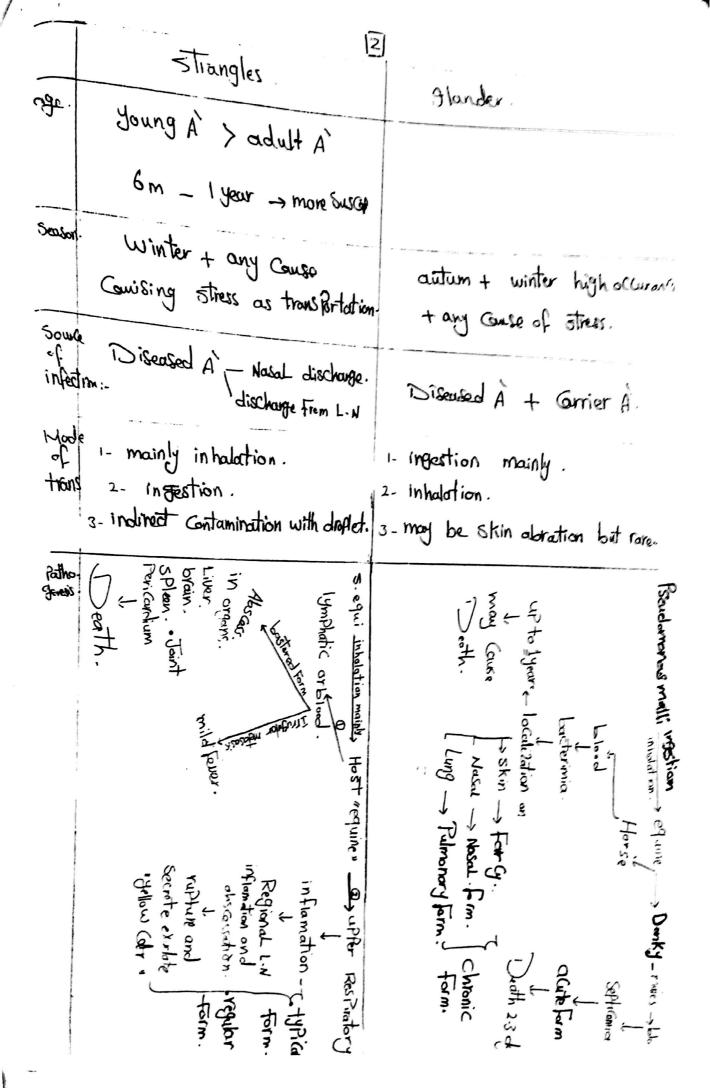
which Prevent Phago Cytosis

* toxin -> leuko Cidial tixin

sus equine only

equine - Human.

Dog-Got -> may be-



Course -> 1-3 wks.

Typical form "most common"	A Typical form.	bastard Form.
* Fever - Bilatel Masor disch	- mild Form.	metastazies. abscass in different
Serous -> mulaidos mulo Purlant	when non Capsulated N-0	agans of body.
* Gugh Dry then moist.	· mild Fever. · L-N mild enlarged.	una - Supparative
* Diffucult in Swellowing.	rarly abscusation of L-N	Pneumonia.
* regardation of Food	Carolication Si-) Jue to	Joint > arthritis -
*Snorting-Dysmea.	Na Ab Teach	Jumness -
* enterg mont of L-N fanotid potro Phanya hottness-Poin.	Ti Parrag hemorgia in	Heart > Pericurditis Prognosis
hottness-Poin. * the abscess of L-N rupture	+ hypersensation of Ag-Ab react + vasculitis in wall of 61-Us.	bod_
may be internal or extens	I was in hour -	due to " telal"
* Pus -> Yellow grenish Pus.	- 1 Has in lips and	mortility -> loo.
5	in head- Neck may reach abdomen. + eye edema.	Antihistamine
	51 myo Corolitis - due to AU	(Ca +2 solutions)
	raction in	
	BI Anemia Aq. Ab reaction	
	in und of RBCs -> rub+me	
	lead to Anemia.	
	FI Gutterol Buch -emffema.	
	make Courier \$ 61. — reinfection	
N.B	may be sinistrus. Impostori.	ryoten in
	and albumenulous Phritis tike Protien in Carsula Look tike	

clinical Signs of glanders:

I.P -> 2 WK to Several month.

Acite F	orm,	Chronic	Form "Farg + Pulmonay + Nasal - Form
o notionally a control of a control of the control	or bilatral. scharge. ined with blood f Masal muasa Suftum. in body esteria	I Skin form 1-2 Cm " nod honey like of lymph Vesseles aftected. I Nasal form: blood. + Sul blood. + Sul	targy" no Systemic Reaction. ules - rupture - ular estar like ischarge ocurr in hind limb chack Joint are affected but L.N may be "I cm nodule in Nasal muaso, suftum illatral or bilatral " may be stained with omaxillary L.N may be enlarged the Not abscass. This alone. bilatral * Suftum stained with blood.
-	Strangles		Glanders
. (3	If equine Uirol > respirator L. N -> Norm E-l equine Uirol F Abortion L Outmanant Fer	arthritis y + abortion. nal. NinoPneumonitis. N > Not enlarged m of equive influe d but not seferated	Toray must be differentiate with lesion on lower limb of equing as II ulcerative lymphangitis. 121 Sportrichosis 131 E.L

/	Str	[5]
	Strangles.	glanders.
Dingledin	" Case - history + cli. signs + PM"	TI field diagnosis.
	12 lab diagnosis.	[2] lab diagnosis.
	Sample -> Noval discharge - Pus	Sample → Serum - exudate • Serology →"CFT"
	· isolation on <u>bl. agar</u> hemolysis. · identification by biochemical test	in G. Pig - orchitis (STraus reaction).
	· ER * inculation in mice	* Malline test Forms Copphalmic
	-> entured in L.N.ofmiG.	· ,
	· Serdogy -> passive H-A	result after -> 24 hrs.
	· due to Call immunity.	
£.+	C SPECIFIC # : 10 Penicillin	· Htis Forrbidden as Animal
,	20000 Iu/kg. I/m for 5-7do	Desine Control
@	inflamation > Finadyin 1 cc/ 45kg	· Destruction of 14 orange
N.B	*Analgin -> 7 cc -> lookg	· It endmic Area only Sufferenties
16	may use Sulfanamide as artibact	or Nitrofurans Could be used
	os it intent and toxic in	N.B EgyPt Free From Glandons.
	Absass: - treatment of absass.	
	Nursing Complete nost with soft Food	
	· Find therapy of Gnc ringer lada	
	· remove discharge and sub with Antisepti C-	
}	remove any stress factor	

· .	Strangles.
Contal	[] isolation For 6 WKs. [2] disinfection of PlaG. [3] hygenic measure -> Caras++ [4] if one abscar -> open in isolar PlaGe as it can be asourd of infection of the farm Vaccination. - S. equibaterin (equibac 2)
N. P.	- M-Protien extract vaccine (Streptvax). Age > 12 wk > 2nd dose in 15-18 wks; Youte I-m recommend Not used as it Couse Post. Vaccine reacting Pinnade IIN vaccine. 2ml 2.30 wks > 2ml 12 wk give local immunity

defend on IgA.

50 no disadventage

route -> I/N.

Glanders

II detection the source of infection by malline test.

121 destriction of infected A'

131 malline test every I manth with 3 successive - We -> Free.

144 detection of Gerrier by CFT.

+We -> destruction.

5 disinfection of stables.

		by Lung by kidwey	
thick creamy pus		Mrscassation in organs	
	Lymph resids	(amination, officer &	
		the appearance	
lymphatic nature		L.V	3
M.O would host	> host -	Most -> Lymph vessel	nahogenesis
- Albrasions	- Abrasian Contaminated by PUS - Insect may be-	-Skin abrasion, crounds	7.0.1
		For 4-5 months.	
		1-1.0 Still live in Soil	
infected animal	Discharge from nodule	pus from opened LN	Infection
Discharge Fram	Horse, Cathe	Sheep	Hast
The Call C			
5810 tehan	Coryne bacterium pseudobaberelosis	Coryne bacterium pseudokabiroloss	C. A
7:30		P Seudo tuberculasis	Syn
Sporotrichosis	Ulcerative lymphaderatis	Caseaus lymphadenitis	The second secon

post		
P 3(0)	i subjection of the state of th)
Geenish-yellow pune or more superficiently, soft, punds later, firm, dustaminated appeared	D D W)]
abscer-yellow y, soft	O Cutaneous Form - enlargement and ab scessation of one or more lymphnades involve superficial L C prescapilar L.N) C prescapilar L.N) C Discharge-thick gree pus- I Visceral Form Emaciation & Deal eue syndrome Pancho pneumonia yelo nephitis.	}
- Emciciated Grass - Caseous abscess discharge (greenish-yellow pus) in one or more superficial L.N pus pus later, Firm, drylaminated appearence.	O Cutaneous Form - enlargement and alo scessation of one or more lymphnades involve superficial LN (prescapular LN) * Discharge-thick green pus- Emaciation & Death ewe syndrome Brancho pneumonia Jelo nephitis.	, A . J
250%	<u> </u>	
	Elicerative lymphadenths IC Nodule around May enlarged to 5-7 Rupture Rupture Rupture Rupture Rymph ressels of lower Sut involved in horse. Sut instants involved Caseous lymph aden.	
	bodule way bodule way rupture green p lood. lood. lessels of lived in the lymp is lymp	•
	Elic Nodelle around fellock may enlarged to 5-7 cm rupture rupture rupture stained with blood. Tymph vessels of lower limb last involved in horse. But instance involved in caseous lymph adenitis.	
	Elective lymphadonths Sic Nodule around Fellock may enlarged to 5-7 cm rupture creamy green pus stained with blood. fymph wessels of lower limb L.N not involved in horse. But instructed involved in caseous lymphadenitis.	
· · · · · · · · · · · · · · · · · · ·		•
	Sportrichosis - Skin nodule in fetlock Joint + thick lymphangitis + Cokling by with enlargment LN with enlargment LN	
	dule in chronic or chronic duly in the chronic	
	Sportrichosis - Skin nodule in fetlock Joint + thick many pus lymphangitis + Cooking lymphatics with enlargment L.N.	
	ς <u>ε</u>	

▼			Diagnosis
Thocalation in & G.P.19 Strauss Strauss 4-10 de 4-10 de 119	* I Dolation that I skilling Co thense-letter * On blood-agar: -> Pripoint glistening a opaque -> crong	- Sample - pus (givenish) - Dample - pus (givenish) - Dample - pus (givenish) - Dample - pus (givenish)	Field diagnosis
Strauss- reaction) Strauss- reaction) * Death after 4-10 days. Abscass in	Chiense-letter Chiense-letter On blood-agar: pripoint glistening colonies opaque ————————————————————————————————————	- pus (girenish) - affected organ Y be [hohadenths .
	* Bid chemical test:- + Bid chemical test:- + ve catalose fermentation of glucose — Acid-production * Skin lesson on hind limb-	Sample - pus (greenish) - affected organ - affected organ - I Solation on blood agar - I solation and Identity - T Solation of the push on brain. heart again - T Solation of the push of the pu	. 2 3
D.D = UL Clanders	Straus-readion - Mile Inoculation by set: Suspected material IIP then mile Sacrified in 3 weeks emmentation Acid-production Someor from peritoneal exidate or hind limb-	*Sample: un opened nodule *Hicroscopic examination \$ Single Geted. Cigar- shape * I sulation and Identification on brain. heart agar on brain. heart agar	* field diagnosis:

J.	Corn.	ナー	Slivery (action	0 = K200	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	of Pus	- 8 hory 2.2.5	13-chad-15	et ly	J. 44.6	
chanc - Holse	Acide is don't	+	+	hock Joint	6-40	Hores Like	+	+	Removed 1	Glander	
wisc	P1 (-1			a found Tredlack J.	Chnese lother	Gles	+ 6000		C. Psudatuberchesu	V.s.	
	Chloric		· · · · · · · · · · · · · · · · · · ·	Hock Jont	- Yest like todig	thick clean	(cost)	+	Historiasa Carsultum	۳\ ش/	-
	Chion C.			- under Tellock	Cyar shaled	scarty - Pale yellou	<u>ــــــــــــــــــــــــــــــــــــ</u>	x - 6 0 1 1 1	SROYation Schaki	5 RoPot chas s	

	A Jusech or buffels.
	all cerative lymphodado
<u>.l.</u>	Yellow pus
	* chronic -> Circumscribed rodule which
	Interest of themses - Creming by tribbed & piece
	a bscassation along course
Jenen Jone	Cording lymphatics with small
entitled but and	* Sub ocate > pimble like SIC noclule
P. 1-1 = 183013 Continue to out with thick	- en largement of prefembral LN.
and lacing company to skin and ste time	one or both fore limb
Sign of thick creamy pus	Signs x A cute form - fewer local painful odema of
* Host -> Horse	
· lymphangitis	24879
Lymphadenitis of and und	: es seç
Sporotrichosis vie	patholensu al
Through wound-	M.O.T By insed
Fungal Spares	Source of 11 UL with infection
Histoplasma - capsulatum	C. A -ul Coradive lymphadenitis view
* PSeuclo-glander @ Equine hotoplasmosis	* occur mainly in Egyptian Buffalo. *
Epizostic lymphangitis	Edernatous Skin disease

penicillin used in

O CFR - 70,000 IU

- @ strangles 20,000 30,000 Iu
- @ listeria -> 44,000 IU
- 3 Caseous lymphaderitis > 19000 IU

X Disease Causing lesion on hind link through wound

- -> Ulcerative Lymphadentis
- -> edematous lymphadenitis.
- Sporotrichosis
- Farcy.

graymo" Equine herres virus, EUR, Equine viral abortion " EHV, and EHVIJ

Acute Febrile Contagions disease Caused by equine helps viruses ch by respirately disease, abortions neonatal discose and neurologic disease.

stiology" AFEHU, - abortion - Phino-Phunon Litis en cephalomyellus. - Prenatal mortality.

B EHV2 - H:12 restitatory disease.

E) FH.V3 -> Co:tal exanthesma.

DEHV-Y - Rhino Premoints - Tally abortion.

So The disese cansed by 640, and EHVY

1.8 + There are antigeric Similarity with the bodine help used IBR/1PV.

+ The vilus glow on many cell causing INIB

Elig emiolojyn 17 Distrabion- USA, South AFTI: G, EgyPt and EuroPe.

E) Source - F: Afections + mas=1 discharge For 2-3 weeks. + wheline discharge. + Disoset holses.

3 Hode of Transmission + Inhelation + Injection.

17 Host - 10 Hase then Donkey - mules.

15 Factors affectly succeptibility 10 seson - Common in Winter and autumn TB) Age - all ago but "4-8-" are more suscerlible to reinsty

ne pregnant mares show abortion. is encepholonylities occur in mare after Parturation. BECONOMIC imPostance-7 Mark blogaction - abortion Storm in Pregnant mare. Pathogenesis~ EHU, and EHULY - respiratory tract epithintin - damage and the respondent cp. thilan. Local Ln TOPISM FOY L direnta For sweek endothilial cells ___ suteres ___ delyaed abortion ___ lung _ RhinoPnumonia ____ nervousystem___ encephalomy lities. - Jusculities and thrombosis. clinical Signs 2 high mortality 3-Low morbidy. 1- IP-12-10 days. 1- Cowle 1-3 Weeks. Forms (A) Rhino Pnunonitis. ~ Tessivatory Form ch by + mild Fever For one week + Short by coust they become moist + Watery nas-1 discharge then mucopularent + dullness and anorexia.

TB) Debuel abortion - abortion Form

+ respiratory Form my be Followed by abortion in bo-90%

of Pregnant nures. within 2-16 weeks.

+ after exposure of virus abortion occurs between

8-11 months.

rotal bith but become week and die within 3d-ynotal bith but become week and die within 3d-ynotal sleeky Fool [2]

erhalic Form.

- + Netlological signs in mare after Fooling or during aboltion.
- + It Can occure after out block of EHU, lespitation in Fection
 - + ATax: a then recumbancy.

- + Minitis and Prumonitis
- + Abolted Fetus Show Sever Pulmonary Congestion and To cal heldic nectosis
 - + Fluid in the Plental Cavity.

Diagnosis ~

OFICILA . thish inciderce of abortions in convelocat pregnet more + Signs of Tesper-ty track infections.

(E) labdingross.

Sandle 17 SWab From Naso-Phayings Secretions 3 Pot on ice refligated alige - it @ Aborted Fetu Show be Frozen.

Coff scribgical examplia used Pariet Sera. - Delection of Ab - use SAT, CFT, ELISA, IST -A + Histo Pathology - Demonstration of esinophilic INIB

D.D A-O:sox cosy (est. t-tof) tisescas Strangles - EVA, Equine Rhino 4 MJ. equire atens viry.

B-- Disese ~ news sions - as Rabies and Equine encept-longility

- aboltion & pregnature Ros Salmonella. (Z) ~

Plognosis

Favorable.

Now slecific T.T = ned: Gled stem inhalation as Jalazol " comfor" - decongestant. pholyd, + A6. + Suleile T.T. J.B_ TIT as TIT of Pramonia. W.B . Short Immenty after Juccination only Fol 3 month So must be related every 3 munth. Overention and control.

Thy ignic mesures. Stict Audintine.

Contomnated area should be closed.

Thy ignic disposil of aborted Fetur. (2) Jacknation Willed Pregnant - 2ml 5/M gth month of Plegnary. I Fool of 2ml ederly 3m. (2) Modified Kitted Liveathanted.
In 1 every 3m Timare

Joongus Equine viral artelites "EVA" , viral afterts. Cellulilies Pink, eye Syndlove . Jou'd is, olcustial

Def acute Contagious viral disease all by influenza abortion syndrome and specific lesion in Small artelies.

Etology.
Afreivirus — Family affeividiae.

Transmition I source of in Fection-Osserch horses. * respiratory discharge + vaginal sectations.

(2) note of Throntion Inhalation.

Pablicaksis ~a-2 signs ~ EUA inholder Pulmonely efthalun, _____ brunchid

> Victoria. Vax-l-r dampe in small action,

s Intestine Hoe entertis, diarrho, abboncol Prin - dehydration - Death - Lung - edema, Plante effusion. Sever byspace. -suteris -s Abertion due to Seder necrotizing myometribi LIPS eye - PRECisto !- 1 edona.

+ Cellalties Pink.

conjected internal organs. + edena in lung . - Plural Guly. which contain 1= lands. + mo metitis. Dignosis - Tield Southers Intertion - lung - wheres. Isolation. Historialin As Speciel Should be Frozen at -Zoc + Scholycol - Parted Sera. Til - non specific Symptomatic. d.B recovered horses have long standing immunity. Alexalion ~ vaccine Itis Safe and effective For postalling m-re. while not reconnaded in pregnat more espectly in late stage or In Fool less than buck of age.

-A To avoid interferance with meternal.
Ab.

Trans.	Mode		Sus cep.		Cause	Of		nt.
-Blood suckling Arthropods -Blood transfusion - through contominablesisted Mach syring Syring -Dogs infected by cating infected dead house coreass seasonal ispacially in summer	Vector (insects) - culicaids - mainly of	horse arass	Horse > mule > donkey Dogs take disease when eat infected dead	•		- Fover - Lung edema - Heamarchge -SIC edema - specially in head (Supra orbital fassa)	sease chi by	african House Sickness
Machanical (Aerosal -dropling (Cass	Inhalation mainly	common in 1:3 year -old horse - take disease subclinical predisposing factors - cold in winter	Equine (Horse - male - donkey) Age : Sever in young & month, then adult	* sonsitive & fragile (HA & HI)	F: orthomyxovirelica G:influenza U 2 strains: A / equi/1 H= N= (RNA) A / equi/2 H= 1	-sudden dealth - Papid spreed -Lacrimation & nasal discharge -self-limithing with 1:2. week	-Highly configures wired disease in equine chiby	Equine Influenza () 5.7°

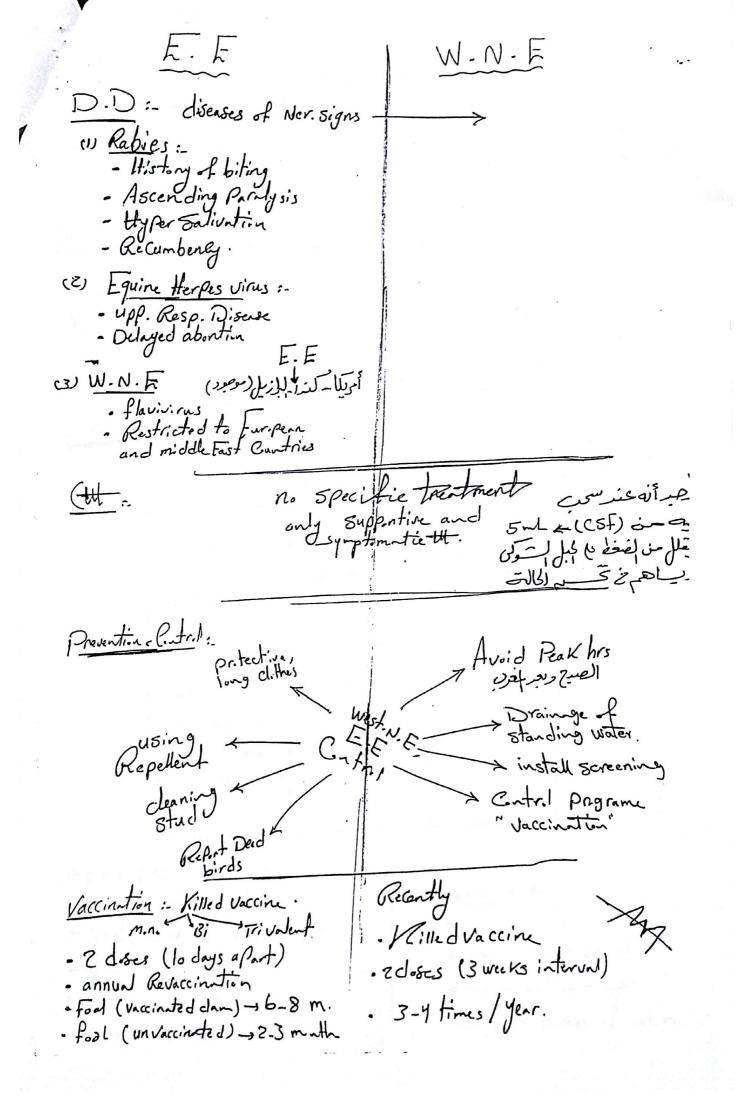
G. C.	cl-signs		Pathogensis
-Common in horses during auditrial during auditrial mortality go 90 -IP 3:5 day - Faver 1:3 day - Gen Junctivies - Cough - Respiratory signs - dysnea - Sever progressive edema - staggering - Recum buncy - death, suicating - death discharge from	@ forms Ocate palmonary thin head		African Ho Virus - Host Calicoids Biological
"Thick head" - Common on denkey -may be in horse -may be in horse -mortality 50% - hover 5: 7 day -conjunctivites - edrano in eyelid -cyonosis baccal y edema in head supre orbital lesse bi-lateral. Donk 1:2 weet due to heart failore	-subacate	Heart Lung edema Peri Cardium Sever piegrossive cde ma - peri Cardilis edema - death death	an Horse sickness Calicoids Blood Fever Vironia
- Pare - Pedmonary Cardic	mixed		الم
Conjuni Reg Hamman	1	- SIC cdrma (anasara)	in 131.v
	Ip: shap 3: 4 days Garse - 1:3 week		Equine Influnza

	african horse sickness	
M'd	Departmenary form - edema in Lyng - Hydrothorax - entarged & heamorchagic - entarged & heamorchagic - throcic & Abdominal L-N Throcic & Abdominal L-N	
Diagnosis	signs - History - P. M - Summer scason -isolation & identification	_ CL. Signs - Sample - nasal swab _ T.C
	Refrigated 40C not frozen as blue tongue - Lung - Spleen - L. N	- ECE - CAM - Seriology - HA & HI NNT DOR + differentiate between strains
	_T.c _= vero cells _ BHK21 _onimal inoculation I/C mice death 3:4 day	
	+ Seriology: CFT, FAT, Eliza, SNI	
D-D	Palmonary dis. **Strangles to glanders	Palmonory dist
	nemonia Iiras US	+ EVA + EVA + Rhing nemonia Company virus
	N.B : Recovered animal called "Salted onimal" Immoniza	
	not corrier. But in glander -> carrier	

		Control	丰
Poly valent Tissue culture (Live) * dose 2ml, SIC, 2 year immunity © virus viscrotropic—I/C in mice passage los times propried trivalent Bivelent Sml 1 month 5ml 1 month 6ivelent 15/14 or S/C, 6 month	* vector contrology as B.T * Hausing at night in insect proof stable. * Transprotation at night Vaccination Opoly Valent Contain g strain	Control trotification	African horse sickness -bad prognosis specially in palmonary form -syptomatic the will low value-accrase virulance only
+ complete rest must be done after vaccination to avoid complications as: myositis 4 myo carditis. - boal from vaccinated more - vaccinated at 63 - boal from non-vaccinated more - vaccinated at 83 + intranasal vaccine · local immunity. Save	- Qurantine - new introduced A' - Quarantine for zweek (B) Vaccination as vaccines? Oinactivated vaccines. - Bivalent vaccine for 2 strains sml IIM 1:3 m 3ml b month immunity.	Sare :-	Syphomatic Syphomatic Kantibiotic -> prevent Complication Kantipyrtic * Hyper Immuno Serum + avoid Cold weather * Rect 7:3 1-4

De Equine Inlephaloryelitis West Nile Encephalitis الله وشي الم synonyms: venezuelan F.E Eastern E E - Western E.E - Acute, SubAcute Vival i Jis. Definition: affecting thorses and theman.
Transmitted by insects "M.squitess"
charact. by mild fever, blindness,
nervous. Manif. - Acute Sporadic viral Disers . mainly affect bird, . accidentally in equine - bovine · characterized by nervious. manif. . Mans mitted by insect. (Fam) Flaviviridae etiology: Togaviridae (fam) (genus) flavivirus Alphavirus (genus) . Three strains → EEE] immunisically → WEE] distinct. → VEE · viruses are frigile - Death after weath of Host by few Hrs. insect bite e pidenciology insect bite. (Horse is terminal Hist) Transmission :-. Horses - Humans. Hast Suscept.
- mainly birds
- Accidental - Horses
- Human High insect Activity during Period of Pactor aff. Suscept. =-. Death Florinic importi-- Public Health importance

E.E W.N.E clinical signs: - I-p (2-3 ws) -I-D (S-2 gm2) · mild fever - biphasic" initial fewer for 24-72 hr (39-41) with an read , depression - CVervous Figns - in coordination -> Ataxio -> Hyper Excitability - Head Pressing N.B EEE-WEE - diphasic . Lecumbanly · Werrums signs at Peak of Kever. - Saw Horse appearance . Hy Per sensitivity, aggressiveness - blindness, Head pressing · Circling , facial Paralysis Saw Horse appearant نه المام فيتوية sleeper istrues obje · Congestion - Peterhind Hy in I muGss of Cerebral Surface PM = no griss changes Bladder and GIT +. · Non Suppuro Encephalonyeltis. Diagnois Field: D= - clinical signs . Seasonal occurrence lab-D:-111 Sample - brain . Blood . CEF 1) Somple : . brain stem · C S F · Blood (refrigerated) les detection of antibody by UNI ce Detection of antigen 13) Paire d Serum Sample. old mice (1-4day) - dend brain y insect in place 5) Hist. P. Holyial Exam. of brain Detect virus by (CFT-FAT) (6) PCR- ELISA in PCR - FIISA - VNT During viremia (1-5 day) -> detect vir.
after 7th day -> Scrum > IgM
701. - . H. Tac 15) Pained Serum surph



Calf disease

* Respiratory disease Complex (calf pneumonia), RDC

- oral necro bacillosis

-Navel ill.

Def: multi-factorial disease Bacterial affected Calf 1:4 ments,
in Cold weather.

Severity - acute - Fetal 7-depend on interaction of multi factorial subclinical Scauses (Bact., Vorial, porasitic) and chronic environmental & Resistance of the calf.

Causes

	o Inial	porasitic	my coplasm
uiroL *PI3 *BRSU *IBR *BUD	pasterial pasterial pasterial pasterial pasterial pasterial pasterial	*Lung worm (Dictycolus Viviporus)	
* Reno virus * Reo virus * adeno virus - most of them upper respiratory diseases			e en e estado.

* predisposing factors:-* Cold, R.H, ventillation * affect cillia * talvector macrophage activity * m.m secretion.

* over crowding * take colstrum or not * rearing different ages

* different sources of Calves.

* Host susceptability - Calf 1:4 month mainly, may for 1

Mode of trans. inhalation paraget

Signs:-

- Morbidity - High 90:100%

- Mortality - Vory acc. to severity of pathogen, \$1 30%

* acute:-

- Cough - dry - moist - dyspnea + respiratory signs

- Lacermation

_ nasal discharge (serus - mucoid - purlent)

* chronic 1-

- normal temp.

- mild nasal discharge (purlent)

- mild Cough & Sample.

diagnosis-

1- Sample: nasal swab, If suspected __ wiral (step 2 &3)

Bacterial __ media __ isolation

2-T.C - confirm by VNT

3- Serology - Scrum sample - CFT - SNT - ELisa

IP-MI-gray or red hepatization ACC. to severity

-Lung edema.

-L.N enlarged (Thoracic Ln)

NB:-

tretment

Dantibiotic -to prevent Compilations - Broad spectrum

* Draxin ImL140 kg, IM, one time +If Confirm pasterlla -sulfa *tylosine -mycoplasma 1 Cm/lokg

*amoly Cillin * Ceprofloxacin * gentamycine *erthromy cine * tetra cyclines

2 anti-inflamatory - finadyne - + Severity

3 anti histominic Avil ampol/70kg

(4) Bronch dilator - Aminophylen ampol/70 kg

5) supportive ##:- [fluid therapy Lite C, wit B, wit E. se

* fluid Therapyi-

- Saline 0.09%

- Ringer

- Lactate Ringer - the best

- dextrose

> isotonic Na-bicarbonates

Na -bicarbonate 1.5% - IN

العجل المحترمن السيوع م ٢: ٣ لتر المحترمن السيوع م ٢: ٣ لتر

B.wt x 15 x o. 6 = ... gm d= 1.5%

* fluid therapy lacy

*5:6% - ral adminstration LIV LIN 6:8% -8:10% - sternal Recumbancy but allert 10:14% - Lateral Recumbancy + Collapse - hopeless

B.wt X dehydration degree

المحل المحم من الله ما المحالم لوتعمل الكية من واحدة و كل عساعات كمية من اله الماه

* Control

Davoid predisposing factors

- @ sufficent amount of clostrum.
- 3 vaccination.

dam: pregnant don take vaccine. If it in the Last stage - the 2nd dose befor parturation by zweeks - Calf must take colstrum in the first thrs (80 mL/kg) calf - not before 8:10 week or 12 week

Opnemo 3 (PI3, IBR, BUD)

Opnemo 3 (PI3, IBR, BUD)

Opnemo 4 (PI3, IBR, BUD, BR synctial)

Opnemo 4 (PI3, IBR, BUD, BR synctial)

3 veracell's Veri-Sheild 5

Q cattle master 4 (PI3, BUD, IBR, BR synctial) 2 ml I month 2 ml, I M, I year immunity

N.B:

3 month calf + pregnant dam فاحسينان بيسخارموا في الاربع فاحسينان بيسخارموا في الدينة الاربع فاحسينان بيسخارموا 5ml or 2ml then before parturtion by 2 weeks

```
oral Necrobacillosis
* kage - Zweeks: 1 year
* Bacterial disease affect call from the age of 2 weeks to 1 year.
- 2 forms
   -> necratic stamatitis
  -necrosis in buccal mucosa At 2w:3m
   -> calf dipthria
     -In pharynx & Larynx At 3m: I year
*Causes: -
- Fusiform bacterium necrophorum = stah sph. necrophorum
   G-Ve
* susceptability
   Calf zwil year = 3milyear
 * Made of trans.
   abrasion in buccal mucosa
  * Signsi-
  II necrotic stamatitis
```

-fever -Salvation

- edema in checks

- ulceration and necrosis in buccal mucosa -Bad odeur from mouth

- cheesy material difficult to remote. _ulcer in all mussa of mouth

[2] Calf diphtheria (more dangerous)

- salivation. - Bad offensive oder

-edema in pharynx & Larynx - Cough & dyspena -may preumonia -ulceration + diptheric membrane in pharynx & Larynx - may close it

* diagnosis:

isolation on media

* treatment

o Local antiseptic (fr. iodine)

② Antimicrobial injection → drug of choise is "33% sulfanamide"

or bo cm → lookg

Ist day → 140 mg/kg

znd: 3rd day → 70 mg/kg

nauel ill = Joint ill

Defi inflammation of umblicus = amphalitis

-in young age in 1st week of ages.

* Causesi-

- E-coli - strept - sph. necrophron - coryne pyogens

+ Il infectious progress internally - omphalophlibitis

* may septicemia - Joint - Joint ill = poly arthritis

*D-0:-

صنع يدك فى السيرة ٢ وسنوف علمات الالتصاب ﴿ hernia

*t reatment

If progress - systemic Ab

				•	7	
	transmis	susp.	Source	Cause		110
-Bats Gibb -> Resusiv -> virus multiply fatty tissen - bats Gibb -> Resusiv -> virus multiply fatty tissen - fruit Bat -> Egypt		-all worm blooded animal specially Carniverous & Cattle sheep, goat, human -all sexs & all ages	Saliva of Rabid animal	family - Rhabdoviridea G- Lyssavirus RNA, fragile - 56% - 5 min kill virus or 1% formaline	-Highly fatal viral disease of all worm blooded unimals including human chi by: -encephalities -paralysis - death	Rabies (Conine diseases) Mad dog
	oral fecal Route -> ingestion	-dogs age -> 1:2 months -> myocarditis -> sudden death -2:9 month -> enteric form (fever, diarrha)	feces & ground	DNA virus F-parvaviridea G-parvavirus type II derivated from parvavirus type I which	- Highly Contagious vival disease of young dogs (puppies) Ch' by :- fever, & vaniting, durrhea dehydration -> death ar mycarditis -> Sudden death	Canine parvo virus (1) &

/		
	ch signs	pathogen esi
Signs: 3 phases O produmal phase (2:3) d - normal temp - stop eating & drinking - change behavior - frequent urination - salivation - salivation - salivation - drop of lower Jaw - progressive paralysis Had & neck - in ability to swall you - in ability to swall you - in ability to swall you	encephlitis During paralysis — Nerve — Salivary gland — Saliva death To varies 15 day > 6 month - 1 years why? Susaptable hast Site of bite dase of virus	Robbes Virus - Bitting by Rabid animal - wound Contaminated Saliva - several hours at site of
DEXCITING phase (213) - salivation - change fucial parameters - dilation of eye pupil - change voice - Running at straight Line for long distance with careless - deprived appetite - Bite Human or anima - sexual desire an (Exection of penis)		animal - wound
-Bloody diarrhea -dehydration -Como, death PM **Exateric form -Sever heamarrhageic entritis -dehydration	yo Cardins Sudden of	Virus -> ingestion puppies 1:2 month
- sudden death - myo Carditis - myo Carditis - strikeson heart - myo Cordial fluid	crypt cells - scuer ligic entity vomiting - Bloody diarrhea Johnstration - death Zform Zform Zform Zform Zform -myocarditis Vomiting	Uirus 10 pies 2:9 month

* History of Biks + signs * History of Biks + signs * isolation & identification Sompt (Brain, Salway gland Salwa) * identification - FAT the bast method * To:80% pasative 20:30% fabe negative 20:30% fabe negative - History attralogy Negri bodies incubation mice I/C 10 days paralysis & death	sheep **Cattle corse 7:10 day **Cattle corse 7:10 day **Jellowing + Salivation -step eating & drinking -sexual desive -sway back = paralysis Coma, death -suckling sound - Amus assiss Amus assiss Amus assiss Amus assiss - Hypersensitive
Inclified live vaccine Inclifs to annoually thought vaccine Inclifs Annually. *Hygienic measure (3)	diagnosis diagnosis Wistory - P. H = Signs Age Susceptability Y Salution - Sampt feed Sampt + T-C Seriology [ELIZA Seriology [FAT Control- Control- Control-

Human J wash with water - Vaccination IG & Soap 1 vaccination of dogs 3 Elimination of fox & walves DELimination Strey dogs @ Biten animal from rabid dag -pseudo Rabies the past signs - No treatment + Contral: + slaughter Not paccinated demastic animal - distemper Canine. Vacconsted re- Us Coination to presigns - O washing wound by worm water + scap -infections conine hepatitis Dinactivated simple Jaccine -1cm, s/c - 1 year immunity - Conine Tic inactivated by formaline
- conine Tic inactivated by formaline + oil *Vaccination @Live attenuted adjuvant. Il flury strain LEP- dog مىتىكەرچۇدىن مىصىر كىلامەس (4:5) 12 flung strain HEP-cat 40:50 passage -> 2 years immunity 3 Modified Live Flury LEP dissolved 3ml water IIM 2 years Olocal antiscptic 80: los passage - Long immunity 3 anti-rabid immunserum 20 Iu/kg in human

f ~ .	a	,
- :	Robies (Med dog)	Pseuda Robies . mad Itch.
Cause	Lyssa virus RNA	Horpes virus ONA
Trans mission	Bite	ingestion - Inhelation mainly absorbing not Gormon
Povair	Bat	Pig
I.p	15 day - 6 month - 1 year	lweck → Zweeks
Coasse	lo days	213 day
	-domenestrated at Saliva	-not in Saliva
Virus	-not in Blood	-demonestrated in Blood
Signs.		
-temp.	nomel	raise temps
Jaw Low	+	
. Sexual desire	+	+
-Gugh Penemenia	-	
-Sever Itch	, –	-}
. puritus. - Histopatta	- ICIB	INIB
	Negri body	
12,,		

	Day gips
-(1	H) of parko, distinger, Blue eye
	H) of parvo, distimper, Blue eye 1 & Vorniting, diamhea, debydration, fever
A	Intipyratic: Setal, dolphin 3 ml oral
<i>[</i>	Intiemetic: Primpian 0-5 ampule 12 0-5 ampule 72 or 5 ampule 72 or 5 ampule 72 or 5 ampule 75 or
A	ntiinflamatory dexametha Zone 0-5-1 Ampu
	ntibiotic Amoxycillin gentamycin, Cefotax. [] Luid therapy Ringer dextrose Salina Ringerlactate
···/:-	Rehydran Ord
<u>.</u>	شفوی الونی کلی عض از ان اور میوان هدر الله Rabies از از ایک لوظهرت علیق الأعلان ومات
	الحيوان domestic à ناميان الحيوان عند الحيوان
An	tirabies , were the color of the cultiple of t
	Canine distemper ZIVI isth
	African horse Sickness Just is les la Pestis des petits ruminants suella just in could
	Rinder Pest (see) iselful
Cor	nine distemper cross protection with human measles
1) 192	120) UT NEST PPR RP Hendra disease in eq

Liseabl
ch + Highly Control wind disconnel your Ouries dag
Characterised by fever gastraenteritis, branchitis
Maracterised by fever gastraenteritis, branchitis
HyperKeratosis, ConTunctivitis
Contract
Cause: Paramy Yoviradae marbillivixus
Sensitive, fragile outside host
Suss pupies fox wolves
3 6 months Adult (mild, Subclinical)
transmission inhalation of droplets
ingestion of antaminated food, water, milk
predisposing factors young age / Cold weather
The state of the s
Pathogenesis)
Fair regenesis, inholation Host (Ouries) lymph Rhad (Virenia)
Virus inhalation Host (pupies) lymph Blood (Virenia) ingestion 3-6 months Fever
Localization GIT / Resp / Eye / Skin / Brain encephalitis
rare
في العالب شكل ولي وقط سكون معامور
أدرا ما يجهل حريج الأسكال مرة و لهرة
IP / 4-7 days
Signs)
general: fever, depression, Anorexia, off food, fatigue
Alimentary Form (digestile Form) & Fener Vomiting, Bloody.
diamhea dehydration death
0

	Respiratory Form: Fever, nasal discharge Coughing Sneezing ConTunctival Caye, Form: ConTunctivitis, Lacrimation Courses
•	Ckin Commin eye lids Keratitis, when opacity
<i>;</i>	Nexteus form: Spasm in muscles in coordination, salivation encephalitis Chewing gum / excitment / Coma / death
,	لا أي وهنه وفي الغالب يأي بدر اسمء أعراف
	Diagnosis signs, agesusciptibility Viral isolation on Tec & Lab à (Ferrets) au ell.
	Samples Who Le blood during Virencia Nasal discharge, digestive Seye Secretion Sevalogy BEISA, CFT, FAT
	DD Digestine (Parvo, Corona, rota, Salmonella) Resp Hexpes, Blue eye
	(H) Symptomatic Willage
	Control Vaccine 1 ml sic 1 year Immu

Canine infectious hepatitis - Blu	recyc disease
Highly Contagious Vival disease of dag ,	Characterised
Highly Contagious Vival disease of dog by Fever Vorniting Bloody diamhea	Jaundice

Adenovirus type 1	protection
Cause Adenovirus type 1 N.B. Adeno 2 Respiratory only	
	1-0
[Sus] Allages young more Sever	ao.3
Fox	
(transmission) fecal oral route	
IP / 1 Week	
Signs	
Peracute: Sudden death	2 1 1 2 1 20
Acute: Fever vomiting 6	Stoody and Toundica
abdominal pain due to he	2 patitus - Januar um Cum
Mervaus Signs - Coma	- death
Blue eye Corneal opacity appear later as	ktexdisappearance.of
Signs by 2-3 Week	.S
distemper Signs by 2-3 Meak distemper	Ab reaction Ppt on eye
PM Liver enlarged, Congeste	d mottled , edematows
Carcass D Jaundi	Q
••••••	•
(N.B) Mainly mild, Chronic / Recovered	d dog become
Carrier and Shed the Viru	s. in wine for
up to 1 year	

Diagnosis Signs , PM
Samples Bload during Virenia Liver _ Ln.
Solation on Tic
Semlogy CFT ELISA
Symptomatic (المالي) Symptomatic
7 to 1
modified live vaccine 1 ml SIC 1 year immunity
,
(N.B) Multivaccine (FL) and (Flat of Length of
1 ml SIC L year Million
at 3 morths of age
1 1:1:0
N.B) Canine hepatitis in fox encephalitis
ARIST Nervous signs in dog
Rabies, Pseudovabies, Canine hepatitis, Mervaus form of distemper, Cerebral babesiasis
of distemper, Cerebrai coverins
PENSON
•

in Day		
1093		
External parasites		
Mange, mitc. Fleas, ticks.		
Local Butax 2 ml /Litter		
Cylical ectamethrine Spray		
Race walution 7 Pour of		
ilest se dieir		
intection a.5 ml dectomax sic		
0.5 ml ivamac SIC		
Mange in animal = Scabies in human		
Ring Worms Chipa Circumscribed area of loss of hair		
Ring Worms Chiea Circumscribed area of loss of hair head, neck, leg		
Las materion queri		
Comiseo fulvin		
my costation flucaral		
> Tincture iadide 2-3 %		
Canastin		
Closon Spray		